09/274,752 B

<110> *insert all those*
<120> *mandatory numeric*
<140> *identifiers and*
<141> *responses for a*
<160> *U.S. case*

*delete - not used in new Sequence Rules format*

~~SEQUENCE LISTING~~

<210> 1
□
<211> 382
□
<212> PRT
□
<213> Homo sapiens
□

□
<400> 1

*see sample Sequence Listing (attached) for valid format*

*Also, consult new Sequence Rules*

*FYI* **Please review the**
**Sequence Listing to ensure that a corresponding explanation is presented in the <220> to**
**<223> fields of each sequence which presents at least one n or Xaa.**

Appendix A To Subpart C to Part 1—Sample Sequence Listing

<110> Smith, John

      Smith, Jane

<120> Example of a Sequence Listing

<130> 01-00001

<140> US 08/999,999

<141> 1998-02-28

<150> EP 91000000

<151> 1997-12-31

*Please consult,*

<160> 2

<170> PatentIn ver. 2.0

<210> 1

<211> 403

<212> DNA

<213> Paramecium aurelia

<220>

<221> CDS

<222> 341..394

<300>

<301> Doe, Richard

<302> Isolation and Characterization of a Gene Encoding a

Protease from Paramecium sp.

<303> Journal of Fictional Genes

<305> 1

<305> 4

<306> 1 - 7

<307> 1988-06-20

<400> 1

ctactctact ctactttcat ctactatctt ctttggatct ctgagtctgc ctgagtggta     60

ctcttgagtc ctggagatct ctcctctcac atgtgatcgt cgagactgac cgatagatcg    120

ctgactgact ctgagatagt cgagcccgta cgagacccgt cgagggtgac agagagtggg    180

cgcgtgcgcg cagagcgccg cgccggtgcg cgcgcgagtg cgcggtgggc cgcgcgaggg    240

ctttcgcggc agcggcggcg ctttccggcg cgcgcccgtc cgcccctaga cctgagaggt    300

cttctcttcc ctcctcttca ctagagaggt ctatatatac atg gtt tca atg ttc     355

                                                    Met Val Ser Met Phe

agc ttg tct ttc aaa tgg cct gga ttt tgt ttg ttt gtt tgtttgctc                403

Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu Phe Val

10                                    15

<210> 2

<211> 18

<212> PRT

<213> Paramecium aurelia

<400> 2

Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu

1         5         10         15

Phe Val

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

| Numeric Identifier | Definition | Comments and Format | Mandatory (M) or Optional (O) |
|---|---|---|---|
| <110> | Applicant | `Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials. | M |
| <120> | Title of Invention | | M |
| <130> | File Reference | Personal file reference | M when filed prior to assignment of appl. number |
| <140> | Current Application Number | Specify as: US 07/999,999 or PCT/US96/99999 | M, if available |
| <141> | Current Filing Date | Specify as: yyyy-mm-dd | M, if available |
| <150> | Prior Application Number | Specify as: US 07/999,999 or PCT/US96/99999 | M, if applicable include priority documents under 35 USC 119 and 120 |
| <151> | Prior Application Filing Date | Specify as: yyyy-mm-dd | M, if applicable |
| <160> | Number of SEQ ID NOs | Count includes total number of SEQ ID NOs | M |
| <170> | Software | Name of software used to create the Sequence Listing | O |
| <210> | SEQ ID NO:#: | Response shall be an integer representing the SEQ ID NO shown | M |
| <211> | Length | Respond with an integer expressing the number of bases or amino acid residues | M |

| | | | | M |
|---|---|---|---|---|
| <212> | Type | Whether presented sequence mole-cule is DNA, RNA, or PRT (protein). If a nucleotide sequenc con-tains both DNA and RNA frag-ments, the type shall be "DNA." In ad-dition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section. | | |
| <213> | Organism | Scientific name, i.e. Genus/species, Unknown or Artifi-cial Sequence. In addition, the "Unknown" or "Artificial Se-quence" organisms shall be further described in the <220> to <223> feature section. | M | |
| <220> | Feature | Leave blank after <220>. <221-223> provide for a description of points of bio-logical signi-ficance in the sequence. | M, under the following condi-tions: if "n," "Xaa," or a mod-ified or unusual L-amino acid or modified base was used in a se-quence; if ORGAN-ISM is "Artifi-cial Sequence" or "Unknown"; if molecule is combined DNA/RNA. | |
| <221> | Name/Key | Provide appropriate identifier for feature, pre-ferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6 | M, under the fol-lowing conditions: if "n," "Xaa," or a modified or un-usual L-amino acid or modified base was used in a sequence | |
| <222> | Location | Specify location within sequence; where appropriate state number of first and last bases/amino acids | M, under the fol-lowing conditions: if "n," "Xaa," or a modified or un-usual L-amino acid or modified | |

| | | in feature | base was used in a sequence |
|---|---|---|---|
| <223> | Other Infor-mation | Other relevant information; four lines maximum | M, under the following conditions: if "n," "Xaa," or a modified or un-usual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if a molecule is com-bined DNA/RNA. |
| <300> | Publication Information | Leave blank after <300> | O |
| <301> | Authors | Preferably max of ten named authors of publi-cation; specify one name per line; preferable format: Surname, Other Names and/or Initials | O |
| <302> | Title | | O |
| <303> | Journal | | O |
| <304> | Volume | | O |
| <305> | Issue | | O |
| <306> | Pages | | O |
| <307> | Date | Journal date on which data published; specify as yyyy-mm-dd, MMM-yyyy or Season-yyyy | O |
| <308> | Database Accession Number | Accession number assigned by data-base including database name | O |
| <309> | Database Entry Date | Date of entry in database; specify as yyyy-mm-dd or MMM-yyyy | O |
| <310> | Patent Document Number | Document number; for patent-type citations only. Specify as, for example, US 07/999,999 | O |

| | | | |
|---|---|---|---|
| <311> | Patent Filing Date | Document filing date, for patent-type citations only; specify as yyyy-mm-dd | O |
| <312> | Publication Date | Document publication date, for patent-type citations only; specify as yyyy-mm-dd | O |
| <313> | Relevant Residues | FROM (position) TO (position) | O |
| <400> | Sequence | SEQ_ID_NO should follow the numeric identifier and should appear on the line pre-ceding the actual sequence | M |

5. Section 1.824 is revised to read as follows:

1.824 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by  1.821(e) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;

1/29/99 1:53 PM